

VIDEO DATA COMPRESSION APPARATUS AND METHOD OF SAME

ABSTRACT OF THE DISCLOSURE

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A video data compression apparatus with which compressed video data of suitable amounts of data can be produced and in addition the time required for processing is short.

- 10       An encoder control unit performs a preprocessing for compression and coding and, at the same time, produces a flatness and an intra AC as parameters indicating the difficulty of the pattern of pictures to be compressed to I pictures. A motion detector calculates a predictive
- 15       error amount (ME residual) of the motion prediction. An FIFO memory delays each picture of the input video data. A host computer approximates a real difficulty data  $D_j$ , indicating the difficulty of the pattern of each picture by the ME residual, flatness, and intra AC and further
- 20       calculates the target amount of data  $T_j$  of the compressed video data from the approximated real difficulty data  $D_j$ . The encoder performs the compression and coding so that the amount of data of the compressed video data becomes substantially the target amount of data  $T_j$ .

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